

A Preliminary Checklist of the Lepidoptera of Mohican State Forest and Mohican State Park, Ashland County, Ohio¹

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ABSTRACT. A comprehensive survey of the Lepidoptera occurring at a state forest and recreational area in Ashland County, Ohio was conducted from 1985 to 1988. Sampling was done using the following techniques: ultraviolet light traps, mercury vapor lights plus ultraviolet lights and collecting sheet, bait traps, sugaring and netting. A total of 466 species and forms were identified and tabulated. It was estimated that the actual number of species at this site was 676. None of the species collected is known to be endangered, threatened, or of special concern. Representative specimens were deposited in the Insect Reference Collection at the Ohio Agricultural Research and Development Center (OARDC), The Ohio State University, Wooster, Ohio. The current status of the abundance of each species was described.

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INTRODUCTION

This is the third in a series of papers which document the species and present status of Lepidoptera in Ohio's recreational areas and nature preserves. The authors have previously reported on the Lepidoptera of the Wilderness Center in Stark County and Arwood Lake Park in Carroll and Tuscarawas Counties.

The authors have been working on a checklist of the owl moths of Ohio since 1974. This effort has involved the collection of specimens throughout the state to determine the species present and their seasonal and geographical distribution. It has also involved the location and examination of private and institutional collections to record data from authentically determined specimens.

The immediate objective of this paper is to record the results of a three-year (1985, 1987, 1988) survey of Lepidoptera conducted at the Mohican State Forest and Mohican State Park in Ashland County, Ohio. Its publication establishes a data base upon which to build a more comprehensive body of knowledge of the non-game wildlife in this area. It also provides a status report on the species as of November 1988. Subsequent studies may show that the status of some species at these sites has changed to endangered, threatened, special concern, status unknown or special interest.

DESCRIPTION OF THE STUDY SITE

Mohican State Forest and Mohican State Park are located in southern Ashland County, midway between Columbus and Cleveland. They are easily reached from Interstate 71 and State Routes 97 and 3. The natural attributes of the area, combined with the nearby commercial facilities, have made this region one of the more popular year-round attractions of the state.

Soils of the Forest are of unglaciated sandstone and shale origins (Anonymous 1976). This composition is from the Waverly and Maxwell formations of the Muskingum series. These well-drained, moderately sloping to very steep sloping soils have formed in the residuum of acid sandstone, siltstone, and shale (Redmond and Brown 1980). They are strongly acid and low

to moderate in productivity, moisture supplying capacity, fertility and organic matter. A large part of these soils are forested and because of steep slopes remain in that use.

Annual average precipitation in the Mohican State Forest area ranges between 87.5 and 100 cm. Temperatures range from -4° to -2°C in January to an average of 20° to 24°C in July. The area receives frequent snowfalls, with an occasional major accumulation (Anonymous 1976).

Land acquisition for the Forest began in 1928 and has continued to the present 4,506 acres (J. E. Dorka pers. commun.). The Mohican State Park covers 1,116 acres of land. The land use history of the Forest is typical of eastern Ohio. Original forests were cleared for agricultural operations, but eventually erosion ensued and fertility decreased. Farms were abandoned, and the land subsequently reverted to brush and woodland.

At the time of acquisition, the planting of trees on abandoned land was a high priority activity. This resulted in the many plantations of red and white red pine and mixtures of these and other pine species (Scotch and short-leaf pine) present today. Small plantings (0.24 hectares) of larch and spruce have also been made. Native hardwoods of the oak-hickory and beech-maple types and associated species of gum, aspen, ash, cherry, hemlock, white pine, and walnut occur on unplanted areas.

MATERIALS AND METHODS

Collecting was done when maximum daily temperatures exceeded 16.9°C . In 1985, a total of 20 one- or two-day collecting trips were made to the study site from 26 March to 18 October. Two field trips were made in November 1987, while 16 trips were made in 1988 between 8 March and 29 September.

During daylight hours, butterflies and skippers were netted with standard insect-collection nets. Foliage was searched for lepidopterous larvae. Since moths are nocturnal and are attracted to baits and lights, most activities took place at night. The following techniques were employed:

BLACKLIGHT AND SHEET. A single 15-watt ultraviolet light, powered by a portable battery, was hung on a white sheet, usually deep in the forest. Desirable moths were selected from the sheet and placed in killing jars.

BLACKLIGHT TRAPS. Two blacklight traps were operated throughout the night in suitable weather using a 15-watt ultraviolet light powered by portable batteries. Moths which were attracted to the light were confronted by a baffle, which funnels them down into a collecting chamber where they are killed by vapors from an insect

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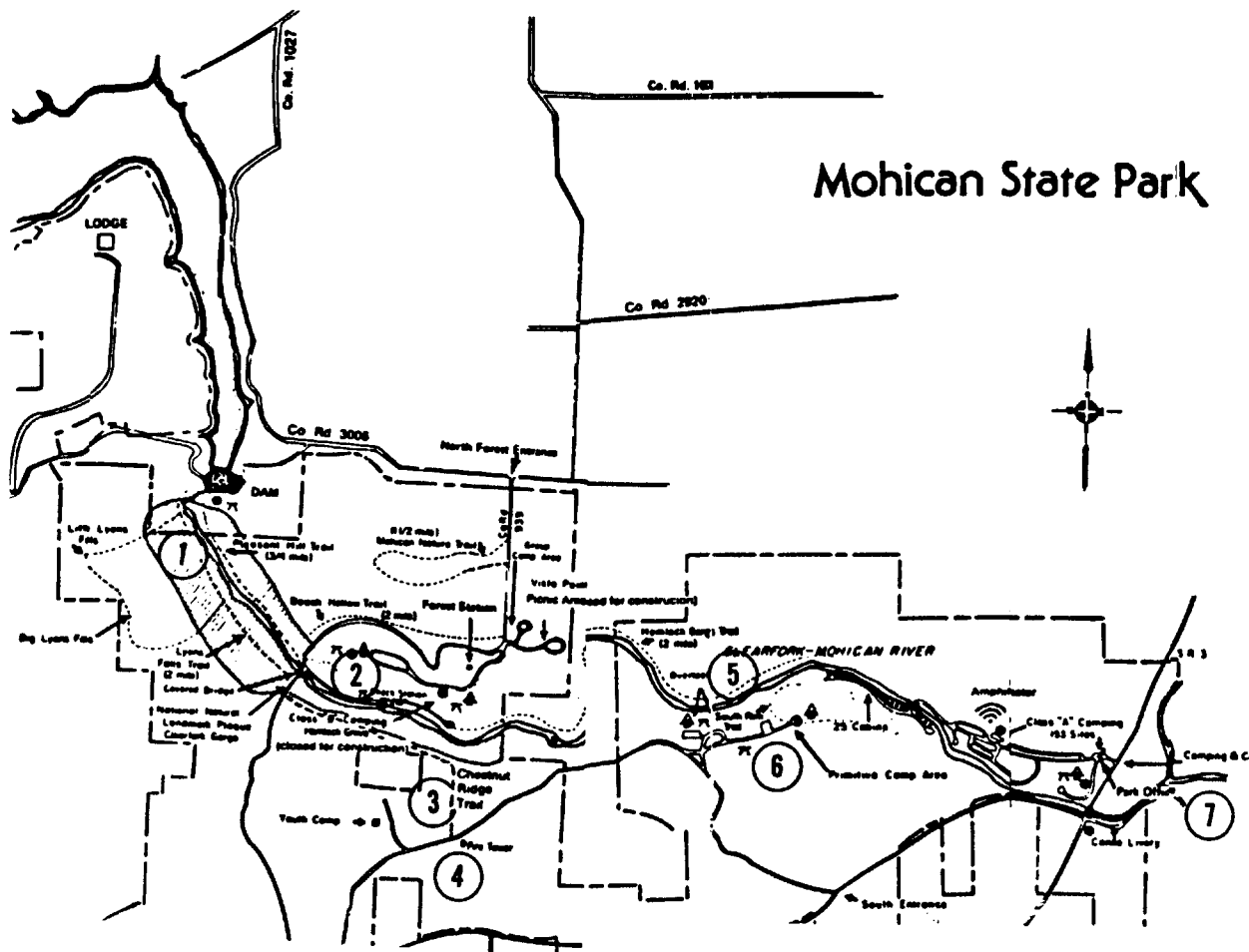


FIGURE 1. Collecting stations at Mohican State Park.

- (1) Nature trail.
- (2) Picnic grounds near covered bridge.
- (3) Chestnut Ridge Trail sugaring line.
- (4) Fire tower.
- (5) Gorge Overlook.
- (6) Picnic grounds east of Gorge Overlook.
- (7) Collecting area across Route 3 from Park Office.

strip (dichlorvos) and a container of chloroform. The moths collected were placed in plastic boxes and taken to the laboratory at OARDC where they were identified and sexed. Klots (1951), Covell (1984), Forbes (1923-60), and Holland (1903) were the primary resources for identification. Choice specimens were spread and labeled.

BAIT TRAPS. These consisted of 35 by 20 cm screened traps baited with the fermenting bait mixture described under "sugaring."

MERCURY VAPOR LIGHT AND SHEET. A 150-watt mercury vapor lamp, powered by a 600-watt Honda generator, was also used to attract moths at night. The lamp was mounted on a steel tripod so that the lamp was about ten feet above the ground and thus attracted moths from a considerable distance. A supplementary black-light was mounted one foot from a white sheet upon which the moths could alight. Desirable specimens could then be selected from the sheet and placed in killing jars containing potassium cyanide and chloroform. Specimens thus collected were taken to Wooster for processing.

SUGARING. A liquid bait attractive to moths was painted on trees as an additional collecting technique. The bait consisted of a mixture of macerated peaches, grapes, plums, brown sugar, and yeast which was allowed to ferment. Just before use, a small amount of rum was added to make the bait aromatic. The bait was designed to simulate one of the natural foods of moths, fermenting tree sap. The baits were examined with a flashlight every 30 to 60 min and desirable species were collected in killing jars.

The following sites were regularly sampled in an alternating pattern (Fig. 1): fire tower and Chestnut Ridge Trail, Gorge Overlook, the picnic area just east of the Overlook, Primitive Camp Area B, and the Nature Trail just northwest of the Forest Headquarters.

RESULTS AND DISCUSSION

Species and forms collected during this study are listed in Table 1 according to the most recent regional checklist (Hodges et al. 1983). The numbers preceding the common name are the checklist numbers from the Hodges checklist. Common names, when available, are taken from Covell (1984) and Klots (1951). Following the common name is the genus, species, form, describer, and date of collection. When more than one collection date is listed, the first is the earliest record of collection, and the second is the latest, in a calendar year. Exceptions to this statement occur in the "winter moths"-*Lithophane*, *Eupsilia* and *Pyreferra*-which emerge in September, overwinter as adults and reproduce the following spring. Following the date of collection is the method of collection abbreviated as indicated in the heading of Table 1. The number following the method

of collection is the number of individuals collected by that method.

The status of each species is indicated as abundant = >10 specimens collected, common = 5-10 specimens, uncommon = 2-4 specimens, and rare = only 1 specimen. This status rating is purely arbitrary and intended only for the collections made in this study. Many of the species classified as "rare" might have been common if collecting had been done more frequently and over a longer period. Other species classified as "rare" or "uncommon" might have been out of their normal habitat at this site. This is particularly true of the species which are migrants and which have strong dispersal tendencies. Some examples are the cutworms and armyworms which may be found in vast numbers in monocultures of agricultural crops.

A total of 466 species of Lepidoptera, representing 24 families, was collected and identified in the course of these studies. Twelve of these were butterflies, three were skippers and 451 were moths (Table 1). None of the species collected is known to be "endangered," "threatened," or "of special concern."

To estimate the complete lepidopterous fauna of this area, which would include species that should occur but were not collected during the study, a hypothetical list of common species that should occur was prepared from collections made in other counties in northeastern Ohio (Carroll, Holmes, Knox, Richland, Tuscarawas, and Wayne). By comparing species on the actual list with those on the hypothetical list, it is estimated that about 73.6% of the moths that should occur in the area were collected. For butterflies and skippers, approximately 18.46% of the estimated fauna were taken. These differences reflect the interests, competence and capabilities of the authors. By projecting the percentage of moths and butterflies that should occur and the actual numbers collected, we can estimate that the total number of lepidopteran species at this site would be 700 (65 species of butterflies and skippers and 635 species of moths).

Rings et al. (1987) reported 511 species of Lepidoptera in an annotated checklist occurring at the Wilderness Center in Stark County. This study was conducted over a nine-year period. In 1988, we reported 428 species and forms from Atwood Lake Park in Carroll and Tuscarawas Counties. From these reports and from the present study, it may be concluded that from 400 to 500 species commonly occur in a given favorable locality in Ohio. Probably 600 to 1,000 species may be taken in a locality characterized by a high host plant diversity, if collections are made at frequent intervals over a period of five or more years.

Although several species were collected which have been serious defoliators of hardwood forests, populations were not sufficiently high to cause concern. Some of these were the spring cankerworm, linden looper, gray spruce looper, hemlock looper, false hemlock looper, forest tent caterpillar, eastern tent caterpillar, catalpa sphinx, yellow-necked caterpillar, walnut caterpillar, saddled prominent, variable oakleaf caterpillar, fall webworm, and the white-marked tussock moth.

The large number of *Zale duplicata* (Bethune) was surprising, since this species was previously known only from Ashtabula County. The apparent heavy population

of this owlet moth is probably caused by the extensive plantings of white pine throughout the study site.

The underwing moths in the genus *Catocala* are favorites of both amateur and professional moth collectors. Most of the species have drab, brownish-gray forewings but brilliantly colored, banded hind wings of pink, red, and orange. During this study, 25 species of underwing moths were taken in the following order of decreasing numbers: *Catocala palaeogama*, *C. resecta*, *C. neogama*, *C. amica*, *C. ilia*, *C. cerogama*, *C. subnata*, *C. relictia*, *C. ultronia*, *C. dejecta*, *C. vidua*, *C. serena*, *C. flebilis*, *C. habilis*, *C. grynea*, *C. lineola*, *C. praeclara*, *C. obscura*, *C. cara*, *C. innubens*, *C. angusi*, *C. micronympha*, *C. mira*, *C. nebulosa*, and *C. unijuga*.

A comparison of the various collecting techniques in 1987 and 1988 showed the following percentages of a total of 3,481 specimens taken: blacklight trap—60.0; mercury vapor light—32.3; blacklight and sheet—5.2; sugaring—2.0; and bait trap—0.4.

A comparison of the number of Lepidoptera collected each month from March to September in 1988 indicates that more specimens were collected in April than any other month. The following percentage of the total number of specimens (3,481) collected in 1988 were: March—2.2; April—29.9; May—25.0; June—9.5; July—6.7; August—5.0; and September—21.6. In most years, collecting can be started with the first few warm days in February and continue until the end of October, or even into November, as in 1987.

TABLE 1

Species of Lepidoptera Collected at Mohican State Forest, Ashland County, Ohio 1984 to 1988. Abbreviations are: BL, black light and sheet; BLT, blacklight trap; BT, bait trap; L, larval collection; M, mercury vapor light and sheet; N, netted; O, observed in flight; S, sugaring.

FAMILY TINEIDAE—The Tineid Moths.	
340	<i>Acrolophus arcanella</i> Clem. 30 Aug 1985 BL 1. Rare.
372	<i>Acrolophus plumifrontella</i> Clem. 24 Jun 1985 S 1. Rare.
FAMILY OECOPHORIDAE—Oecophorid Moths.	
1011	BIRD-DROPPING OECOPHORID, <i>Anteotricha schlaegeri</i> (Zell.) 10 Jun–23 Aug 1985 BL 2; 15 May 1988 BLT 7. Common.
FAMILY YPONOMEUTIDAE—Ermine Moths.	
2401	AILANTHUS WEBWORM MOTH, <i>Atteva punctella</i> (Cram.) 8 Jul–18 Oct 1985 BL 1, BLT 1. Uncommon
FAMILY TORTRICIDAE—Leafroller moths.	
3594	THREE-LINED LEAFROLLER, <i>Pandemis limitana</i> (Rob.) 23 Aug 1985 BL 1. Rare.
3748	MOTTLED GRAY LEAF ROLLER, <i>Amorbia humerosa</i> Clem. 15 Jun 1988 MVL 1. Rare.
FAMILY HESPERIIDAE—The Skippers	
3870	SILVER-SPOTTED SKIPPER, <i>Epagyreus clarus</i> (Cram.) 9 May 1985 N 1. Rare.
3947	JUVENAL'S DUSKY WING, <i>Erynnis juvenalis</i> (F.) 9 May 1985 N 1. Rare.
4060	ZABULON SKIPPER, <i>Poanes zabulon</i> (Bdv. & Lec.) 9 May 1985 N 1. Rare.
FAMILY PAPILIONIDAE—The Swallowtail Butterflies	
4176	TIGER SWALLOWTAIL, <i>Papilio glaucus</i> L. 9 May 1985 N 1. Rare.
4181	SPICEBUSH SWALLOWTAIL, <i>Papilio trolius</i> L. 9 May 1985 N 1. Rare.
4184	ZEBRA SWALLOWTAIL, <i>Eurytides marcellus</i> (Cram.) 10 Jun 1985 O 1. Rare.
FAMILY PIERIDAE—The White and Sulfur Butterflies	
4197	EUROPEAN CABBAGE BUTTERFLY, <i>Artogeia rapae</i> L. 9 May 1985 N 3. Uncommon.
4209	COMMON SULFUR, <i>Colias philodice</i> Godt. 9 May 1885 N 1. Rare.

TABLE 1 (continued)

FAMILY LYCAENIDAE-The Blues and Coppers

- 4249 THE HARVESTER, *Feniseca tarquinius* Fab. 9 May 1985 N 1. Rare.
 4251 AMERICAN COPPER, *Lycaena phlaeas* (L.) 8 May 1985 N 1. Rare.
 4328 PINE ELFIN, *Incisalia nippon* (Hbn.) has been collected by Reed Watkins in the pine plantings. This occurrence is disjunct from all other Ohio populations but label data is not at hand.
 4363 SPRING AZURE, *Celastrina ladon* (Cram.) 8 May 1985 N 1. Rare.

FAMILY NYMPHALIDAE-The Brush-footed Butterflies

- 4421 HOP MERCHANT, *Polygonia comma* (Harr.) 21 Apr 1985 N 1. Rare.
 4437 RED ADMIRAL, *Vanessa atalanta* (L.) 9 May 1985 N 1. Rare.
 4465 MEADOW FRITILLARY, *Clossiana bellona* f. *toddi* (Holl.) 10 May 1985 N 1. Rare.
 4481 PEARL CRESCENT, *Phyciodes tharos* (Drury) 10 May 1985 N 1. Rare.

FAMILY LIMACODIDAE-Slug Caterpillars and Hagmoths

- 4652 BROWN-BANDED SLUG CATERPILLAR, *Tortricidea testacea* Pack. 30 May 1985 BL1; 5 Jun 1988 MVL 2. Uncommon.
 4654 *Tortricidea flexuosa* (Grt.) 24 Jul-4 Aug 1988 BLT 4, MVL 1. Common.
 4658 *Packardia albipunctata* (Pack.) 10 Jun 1985 BL 1. Rare.
 4659 *Packardia geminata* (Pack.) 15 Jun 1988 BLT 1, MVL 1. Uncommon.
 4665 *Lithacodes fasciola* (H.-S.) 15 Jul 1985 BL 1; 24 Jul-4 Aug 1988 BL 1, BLT 1. Uncommon.
 4667 *Apoda y-inversum* (Pack.) 10-15 Jun 1985 BL 2; 24 Jul-4 Aug 1988 BLT 1, MVL 1. Uncommon.
 4669 *Apoda biguttata* (Pack.) 8-15 Jul 1985 BL (2); 13 Jul-4 Aug 1988 BLT 2, MVL 4, BLT 2. Common.
 4671 SKIFF CATERPILLAR, *Prolimacodes badia* (Hbn.) 15 Jul 1985 BL 1; 24 Jul 1988 MVL 2. Uncommon.
 4685 *Adoneta spinuloides* (H.-S.) 15 Jul 1985 BL 1. Rare.
 4697 SPINY OAK-SLUG, *Euclea delphinii* (Bdv.) 16 June-8 Jul 1985 BL 1, BLT 1; 13 Jul-4 Aug 1988 BLT 2, MVL 3. Common.
 4698 SMALLER PARASA, *Parasa chloris* (H.-S.) 8 Jul 1985 BL 1; 24 Jul 1988 MVL 2. Uncommon.
 4700 SADDLEBACK CATERPILLAR, *Sabine stimulea* (Clem.) 8 Jul 1985 BL 1. Rare.

FAMILY PYRALIDAE-The Pyralid Moths

- 4949 EUROPEAN CORN BORER, *Ostrinia nubilalis* (Hbn.) 30 May-3 Sep 1985 BL 10; 15 Jun 1988 BLT 1; 14 Sep 1988 MVL 2. Two generations, Abundant.
 5071 *Pyrausta acronialis* (Wlk.) 3 Sep 1985 BLT 1. Rare.
 5142 *Diacme ealis* (Wlk.) 24 Jul 1988 MVL 1. Rare.
 5156 *Nomophila nearctica* Mun. 15 Nov 1987 BLT 1. Rare.
 5159 GRAPE LEAF-FOLDER MOTH, *Desmia funeralis* (Hbn.) 4-23 Aug 1985 BL 1; 5 Jun 1988 MVL 2, S 1. Uncommon.
 5182 *Blepharomastix ranalis* (Gn.) 24 Jul 1988 BLT 3. Uncommon.
 5226 *Palpita magniferalis* (Wlk.) 10 Jun 1985 BL 2. Uncommon.
 5228 *Polygrammodes flavidalis* (Gn.) 15 Jul 1985 BL 1. Rare.
 5241 BASSWOOD LEAF-ROLLER, *Pantographa limata* (G. & R.) 4 Aug 1985 BL 4; 13 Jul-4 Aug 1988 BLT 6, MVL 2, BLT 6. Multiple generations, abundant.
 5365 *Crambus girardellus* Clem. 13 Jul 1988 MVL 1. Rare.
 5510 MEAL MOTH, *Pyralis farinalis* L. 16 Jun 1985 S 1. Rare.
 5524 CLOVER HAYWORM MOTH, *Hypsopygia costalis* (F.) 3 Sep-18 Oct 1985 BLT (2); 10-29 Sep 1988 BLT 21, MVL 6. Abundant.
 5533 *Herculia olinalis* (Gn.) 10 Jun 1985 BL 1. Rare.
 5997 *Euzophera ostricorella* Hulst 4 Aug-9 Sep 1985 BLT 2. Uncommon.

FAMILY THYATIRIDAE-The Thyatirid Moths

- 6237 TUFTED THYATIRID, *Pseudothyatira cymatophoroides* (Gn.) 10 Jun-4 Aug 1985 BL 2; 6 Apr-4 Aug BL 3, MVL 1, S 2. Common.

TABLE 1 (continued)

- 6240 DOGWOOD THYATIRID, *Euthyatira pudens* (Gn.) 21 Apr-10 Jun 1985 BL 5; 13 Apr-15 May 1988 BLT 7, MVL 2. Abundant.
 6240 PENNSYLVANIA DOGWOOD THYATIRID, *Euthyatira pudens* f. *pennsylvanica* Sm. 21 Apr-10 Jun 1985 BL 2; 13 Apr 1988 BLT 1, S 2. Common.

FAMILY DREPANIDAE-Hooktip Moths

- 6251 ARCHED HOOKTIP, *Drepana arcuata* Wlk. 15 May 1988 MVL 2. Uncommon.
 6255 ROSY HOOKTIP, *Oreta rosea* (Wlk.) 10 Jun 1985 BL 1. Rare.

FAMILY GEOMETRIDAE-The Geometers

- 6261 COMMON SPRING MOTH, *Helionota cycladata* G. & R. 14 May-10 Jun 1985 BL 2; 5 Jun-15 Jun 1988 BLT 8, MVL 2. Abundant.
 6273 LESSER MAPLE SPANWORM MOTH, *Itame pustularia* (Gn.) 24 Jun-23 Aug 1985 BL 3; 24 Jul-4 Aug 1988 BL 2, BLT 8, MVL 4. Abundant.
 6295 *Itame confederata* B. & McD. 10 Jun 1985 BL 1. Rare.
 6326 COMMON ANGLE, *Semiothisa aemulataria* (Wlk.) 9 May-4 Aug 1985 BL 2; 15 May-14 Sep 1988 BLT 28, MVL 5. Abundant.
 6340 MINOR ANGLE, *Semiothisa minorata* (Pack.) 8-10 Aug 1985 BL 1; 15 May-5 Jun 1988 BLT 4, MVL 1. Common.
 6342 RED-HEADED INCHWORM, *Semiothisa bisignata* (Wlk.) 24 Jul-8 Aug 1985 BL 2; 15 May-24 Jul 1988 MVL 4. Common.
 6348 HEMLOCK ANGLE, *Semiothisa fissinotata* (Wlk.) 9 May-8 Aug 1985 BL 4, 1; 15 May-24 Jul 1988 BLT 4, MVL 1. Common.
 6352 GRANITE MOTH, *Semiothisa granitaria* (Gn.) 9 May 1984 BL 1; 5 Jun 1988 BLT 1. Uncommon.
 6360 FOUR-SPOTTED ANGLE, *Semiothisa quadrinotaria* (H.-S.) 10 Jun 1985 BL 1. Rare.
 6428 *Orthofidonia tinctaria* (Wlk.) 9 May 1985 3. Uncommon.
 6584 SMALL PURPLISH GRAY, *Anacamptodes humaria* (Gn.) 15 May 1988 BLT 1. Rare.
 6588 BENT-LINE GRAY, *Iridopsis larvaria* (Gn.) 9 May-30 Sep 1985 BL 2; 15 May-4 Aug 1988 BL 1, BLT 6, MVL 3. Abundant.
 6590 COMMON GRAY, *Anavitrinella pampinaria* (Gn.) 9-30 May 1985 BL 6; 15 May 1988 BLT 2. Common.
 6597 THE SMALL ENGRAILED, *Ectropis crepuscularia* (D. & S.) 21 Apr-9 May 1985 BL 6. Common.
 6599 TULIP-TREE BEAUTY, *Epimecis hortaria* (F.) 9 May-23 Aug 1985 BL 2; 15 May 24 Jul 1988 BLT 9, MVL 2, S 1. Abundant.
 6620 CANADIAN MELANOLOPHIA, *Melanolopia canadaria* (Gn.) 21 Apr-24 Jul 1985 BL 2; 15 May 1988 MVL 15, BLT 120. Abundant.
 6621 SIGNATE MELANOLOPHIA, *Melanolopia signataria* (Wlk.) 15 May 1988 BLT 2. Uncommon.
 6638 POWDER MOTH, *Eufidonia notataria* (Wlk.) 9 May-24 Jun 1985 BL 7; 15 May 15 Jun 1988 BLT 23, MVL 5. Abundant.
 6640 PEPPER AND SALT GEOMETER, *Biston betularia* f. *swettaria* (B. & McD.) 14 May-23 Aug 1985 BL 3; 5 Jun 1988 MVL 1. Uncommon.
 6640a PEPPER AND SALT GEOMETER, *Biston betularia* f. *cognataria* (Gn.) 9 May-23 Aug 1985 BL 4; 15 Jun 1988 MVL 2. Common.
 6654 ONE-SPOTTED VARIANT, *Hypagyrtis unipunctata* (Haw.) 10 Jun-23 Aug 1985 BL 10; 5-15 Jun 1988 BLT 1, MVL 7. Abundant.
 6658 THE HALF-WING, *Phigalia titea* (Cram.) 5 Apr 1988 BL 1, BLT 1, S 1; 13 Apr 1988 BLT 1, MVL 4. Uncommon.
 6660 SMALL PHYGALIA, *Phigalia strigataria* (Minot) 26 Mar 1985 BL 1; 5-13 Apr 1988 BL 1, MVL 1. Common.
 6662 SPRING CANKERWORM, *Paleacrita vernata* (Peck) 23 Mar 1988 BL 1, BLT 16; 31 Mar-5 Apr 1988 BL 7, BLT 14. Abundant.
 6665 LINDEN LOOPER, *Erannis tiliaria* (Harr.) 15 Nov 1987 BLT 4. Uncommon.

TABLE 1 (continued)

6666	BLUISH SPRING MOTH, <i>Lomographa semiclarata</i> (Wlk.) 9 May 1985 BL 1. Rare.
6667	WHITE SPRING MOTH, <i>Lomographa vestaliata</i> (Gn.) 21 Apr–10 Jun 1985 BL 3, BLT 1; 5 Jun 1988 MVL 1. Common.
6668	GRAY SPRING MOTH, <i>Lomographa glomeraria</i> (Grt.) 21 Apr–14 May 1985 BL 5; 5 Apr 15 May 1988 BL 1, BLT 70, MVL 12 Abundant.
6720	COMMON LYTROSIS, <i>Lyttosia unitaria</i> (H.-S.) 24 Jun–8 Jul 1985 BL 9. Common.
6726	OBTUSE EUCHLAENA, <i>Euchlaena obtusaria</i> (Hbn.) 23 Aug 1985 BL 1; 15 Jun 1988 BLT 1. Uncommon.
6729	JOHNSON'S EUCHLAENA, <i>Euchlaena johnsonaria</i> (Fitch) 10–23 Aug 1985 BL 3. Uncommon.
6733	DEEP YELLOW EUCHLAENA, <i>Euchlaena amoenaria</i> (Gn.) 9–14 May 1985 BL 2; 15 May 1988 BLT 20. Abundant.
6733a	DEEP YELLOW EUCHLAENA, <i>Euchlaena amoenaria</i> f. <i>astylusaria</i> (Wlk.) 15 May 1988 BLT 2; 5 Jun 1988 BLT 2. Uncommon.
6737	MOTTLED EUCHLAENA, <i>Euchlaena tigrinaria</i> (Gn.) 14 May 1985 BLT 1; 5 Jun 1988 BLT 7, MVL 3. Abundant.
6743	CROCUS GEOMETER, <i>Xanthotype sospeta</i> (Drury) 14 May 1985 BL 1. Rare.
6753	HONEST PERO, <i>Pero honestaria</i> (Wlk.) 21 Apr–8 Aug 1985 BL 4. Uncommon.
6754	HUNNER'S PERO, <i>Pero hubneraria</i> (Gn.) 15 May 1988 MVL 3, BLT 22. Abundant.
6755	MORRISON'S PERO, <i>Pero morrisonaria</i> (Hy. Edw.) 10–12 Jun–1985 BL 4. Uncommon.
6763	OAK BEAUTY, <i>Nacophora quernaria</i> (J. E. Smith) 9 May–16 Jun 1985 BL 5; 15 May 1988 MVL 2. Common.
6796	PALE BEAUTY, <i>Campaea perlata</i> (Gn.) 30 May–10 Sep 1985 BL 5; 5 Jun 14–Sep 1988 BLT 9, MVL 15, S 2. Abundant.
6797	MAPLE SPANWORM MOTH, <i>Ennomos magnaria</i> Gn. 3 Sep–18 Oct 1985 BL 3, BLT 2. Common.
6818	KENT'S GEOMETER, <i>Selenia kentaria</i> (G. & R.) 9 May 1985 BL 1; 26 Apr 1988 BLT 2. Uncommon.
6819	PALE METANEMA, <i>Metanema inatomaria</i> Gn. 15 Jul 1985 BL 1. Rare.
6823	ANGLED METARRANTHIS, <i>Metarranthis angularia</i> B. & McD. 14 May 1985 BL 1. Rare.
6826	COMMON METARRANTHIS, <i>Metarranthis hypocharia</i> (H.-S.) 16 Jun 1985 BL, S 2; 15 Jun 1988 BLT 2. Common.
6835	SCALLOP MOTH, <i>Cepphis armataria</i> (H.-S.) 10 Jun–10 Aug 1985 BL 2. Uncommon.
6836	AMERICAN BARRED UMBER, <i>Anagoga occiduaria</i> (Wlk.) 10 Aug 1985 BL 2; 15 May 1988 MVL 3, BLT 6. Abundant.
6837	DOGWOOD PROBOLE, <i>Probole alienaria</i> (H.-S.) 21 Apr (2)–9 May 1985 BL 2; 15 May 1988 MVL 2, BLT 13. Abundant.
6837.1	<i>Probole alienaria nyssaria</i> (Gn.) 21 Apr–8 May 1985 BL 2; 15 May–15 Jun 1988 BLT 18, MVL 14, S 1. Abundant.
6838	FRIENDLY PROBOLE, <i>Probole amicaria</i> (H.-S.) 21 Apr–23 Aug 1985 BL 1, BLT 2; 15 Jun–4 Aug 1988 BLT 3. Uncommon.
6840	LEMON PLAGODIS, <i>Plagodis serenaria</i> H.-S. 9 May–10 Jun 1985 BL 3; 15 May 5 Jun 1988 BLT 7, MVL 3. Abundant.
6841	PURPLE PLAGODIS, <i>Plagodis kuetzingi</i> (Grt.) 9 May–8 Aug 1985 BL 2; 15 May 4 Aug 1988 BLT 15, MVL 2. Abundant.
6842	STRAIGHT-LINED PLAGODIS, <i>Plagodis phlogosaria</i> (Gn.) 10 Aug 1985 BL 1; 15 May 1988 BLT 1. Uncommon.
6843	FERVID PLAGODIS, <i>Plagodis fervidaria</i> (H.-S.) 28 Jul 1985 BL 1; 15 May–4 Aug 1988 BL 1. BLT 29, MVL 1. Abundant.
6844	HOLLOW-SPOTTED PLAGODIS, <i>Plagodis alcoalaria</i> (Gn.) 9 May–10 Aug 1985 BL 2; 15 May 5 Jun 1988 BLT 9, MVL 1.

TABLE 1 (continued)

6863	GRAY SPRUCE LOOPER, <i>Caripeta divisata</i> Wlk. 8 Jul–3 Sep 1985 BL 8; 4 Aug 1988 BL 5, BLT 20. Abundant.
6884	STRAW BESMA, <i>Besma endropiaria</i> (G. & R.) 14 May–10 Jun 1985 BL 1, BLT 1. Uncommon.
6885	OAK BESMA, <i>Besma quercivoraria</i> (Gn.) 9 May–10 Aug 1985 BL 2; 15 May 1988 BLT 19, MVL 2. Abundant.
6888	HEMLOCK LOOPER, <i>Lambdina fiscellaria</i> (Gn.) 30 Sep 1985 BLT 3; 15 May 1988 BLT 1, MVL 1. Uncommon.
6892	YELLOW-HEADED LOOPER, <i>Lambdina pellucidaria</i> (G. & R.) 14 May–10 Jun 1985 BL 2; 15 May–5 Jun 1988 BLT 5, MVL 3. Common.
6894	CURVE-LINE LOOPER, <i>Lambdina fervidaria</i> (Hbn.) 15 May 1988 MVL 5, BLT 12. Abundant.
6894a	CURVE-LINED LOOPER, <i>Lambdina fervidaria athasaria</i> (Wlk.) 15 Jun 1950 BLT 1; 4 Aug 1985 BL 2. Uncommon.
6906	FALSE HEMLOCK LOOPER MOTH, <i>Neptria canosaria</i> (Wlk.) 30 Sep–18 Oct 1985 BLT 8. Common.
6941	CONFUSED EUSCARCA, <i>Eusarca confusaria</i> Hbn. 8 Jul–23 Aug 1985 BL 4; 10 Sep 1988 BLT 2. Common.
6963	YELLOW SLANT-LINE, <i>Tetracis crocallata</i> Gn. 9 May 1985 BL 1; 15 May 4 Aug 1988 BLT 4, MVL 8. Abundant.
6964	WHITE SLANT-LINE, <i>Tetracis cachexiata</i> Gn. 9 May–24 Jun 1985 BL 5; 15 May–13 Jul 1988 BLT 10, MVL 3, S 1. Abundant.
6966	CURVE-TOOTHED GEOMETER, <i>Eutrapela clemataria</i> (J. E. Smith) 21 Apr–16 Jul 1985 BL 10; 5 Apr–29 Sep 1988 BLT 37, MVL 29. Abundant.
6982	LARGE MAPLE SPANWORM MOTH, <i>Prochoerodes transversata</i> (Drury) 8 Jul–18 Oct 1985 BL 10, BLT 4; 14–29 Sep 1988 BLT 2, MVL 1, S 1. Abundant.
6987	VARIABLE ANTEPIONE, <i>Antepione thisoaria</i> (Gn.) 15 May 1988 BLT 10, MVL 1; 4 Aug 1988 BL 1, BLT 1. Abundant.
7046	TWO-STRIPED EMERALD, <i>Nemoria bistriaria</i> Hbn. 8 May–10 Aug 1985 BL 4; 15 May–4 Aug 1988 BLT 46, MVL 1. Abundant.
7048	<i>Nemoria mimosaria</i> (Gn.) 30 May 1985 BL 2; 15 May 1988 BLT 3. Common.
7053	SHOWY EMERALD, <i>Dichorda iridaria</i> (Gn.) 5 Jun 1988 BLT 1. Rare.
7058	WAVY-LINED EMERALD, <i>Synchlora aerata</i> (F.) 14 May–23 Aug 1985 BL 2. Uncommon.
7071	BLACKBERRY LOOPER, <i>Chlorochlamys chloroleucaria</i> (Gn.) 14 May–24 Jul 1985 BL 2. Uncommon.
7075	ANGLE-WINGED EMERALD, <i>Chloropteryx tepperaria</i> (Hulst.) 9 May 1985 BL 1. Rare.
7084	PISTACHIO EMERALD, <i>Hethemia pistascaria</i> (Gn.) 9 May 1985 1. Rare.
7139	SWEET FERN GEOMETER, <i>Cyclophora pendulinaria</i> (Gn.) 14 May 1985 BL 2. Uncommon.
7146	CHICKWEED GEOMETER, <i>Haematopsis grataria</i> (F.) 3 Sep 1985 BL 1. Rare.
7159	LARGER LACE BORDER, <i>Scopula limboundata</i> (Haw.) 10 Jun–23 Aug 1985 BL 3, BLT 2; 24 Jul 1988 BLT 4, MVL 1. Abundant.
7189	ORANGE-BARRED CARPET, <i>Dysstroma hersiliata</i> (Gn.) 30 May–10 Jun 1985 BL 2. Uncommon.
7196	LESSER GRAPEVINE LOOPER, <i>Eulithis diversilineata</i> (Hbn.) 4 Aug–18 Oct 1985 BL 1, BLT 2; 13 Jul–29 Sep 1988 BLT 2, MVL 4. Common.
7237	TRANSFIGURED HYDRIOMENA, <i>Hydriomena transfigurata</i> Swett 21 Apr 1985 BL 1. Rare.
7290	BARBERRY LOOPER, <i>Coryphista meadii</i> (Pack.) 14 May 1985 BLT 1. Rare.
7292	FERGUSON'S SCALLOP SHELL, <i>Hydria prunivora</i> (Fgn.) 10 Jun–23 Aug 1985 BL 6; 15 May 5 Jun 1988 BLT 1, MVL 20 Abundant.
7307	WHITE-RIBBONED CARPET, <i>Mesoleuca ruficollata</i> (Gn.) 14 May–8 Jul 1985 BL 2. Uncommon.
7329	<i>Anticlea vasiliata</i> Gn. 21 Apr–9 May 1985 BL 3; 13 Apr 15 May 1988 BLT 3, MVL 1. Common.
7388	<i>Xanthorhoe ferrugata</i> (Clem.) 15 May–10 Sep 1988 BLT 2, MVL 1. Uncommon.

TABLE 1 (continued)

7390	TOOTHED BROWN CARPET, <i>Xanthorhoe lacustrata</i> (Gn.) 21 Apr–4 Aug 1985 BL 6. Common.
7399	SHARP-ANGLED CARPET, <i>Euphyia unangulata</i> (Haw.) 24 Jun–4 Aug 1985 BL 3. Uncommon.
7416	BENT-LINE CARPET, <i>Orthonama centrostrigaria</i> (Woll.) 16 Jun 1985 S 1; 10–14 Sep 1988 BLT 3, MVL 1. Common.
7422	<i>Hydrelia inornata</i> (Hulst) 14–30 May 1985 BL 2. Uncommon.
7428	BROWN-SHADED CARPET, <i>Venusia comptaria</i> (Wlk.) 21 Apr–9 May 1985 BL 2. Uncommon.
7430	WHITE-STRIPED BLACK, <i>Trichodezia albovittata</i> (Gn.) 10 Aug 1985 BL 1. Rare.
7440	THE BEGGAR, <i>Eubaphe mendica</i> (Wlk.) 10 Jun–8 Jul 1985 BL 1, BLT 1. Uncommon.
7449	<i>Epithecica palpata</i> Pack. 14 May 1985 BL 1. Rare.
7635	OLIVE AND BLACK CARPET, <i>Acasis viridata</i> (Pack.) 21 Apr–14 May 1985 BL 1, BLT 1. Uncommon.
7639	THE SCRIBBLER, <i>Cladara atroliturata</i> (Wlk.) 5 Apr 1988 BL 1, BLT 1; 13–26 Apr 1988 BLT 9, MVL 10. Abundant.
7647	THREE-SPOTTED FILLUP, <i>Heterophleps triguttaria</i> H.-S. 9 May–10 Jun 1985 BL 2. Uncommon.
FAMILY EPIPLEMIDAE-Epiplimid moths.	
7653	BROWN SCOOPWING, <i>Calledapteryx dryopterata</i> Grt. 4 Aug 1985 BL 1. Rare.
FAMILY MIMALLIONDAE-Sack-bearer Moths	
7662	MELSHEIMER'S SACK-BEARER, <i>Cincinnati melsheimeri</i> (Harr.) 18 Jun 1985 BL 1. Rare.
FAMILY APATELODIDAE-Apatelodid Moths.	
7663	SPOTTED APATELODES, <i>Apatelodes torrefacta</i> (J. E. Smith) 15 Jun 1988 BLT 1; 13 Jul 1988 BL 1. Uncommon.
7665	THE ANGEL, <i>Olceclostera angelica</i> (Grt.) 8–15 Jul 1985 BL 1. Rare.
FAMILY LASIOCAMPIDAE	
7670	VELLEDA LAPPET MOTH, <i>Tolyte vellea</i> (Stoll.) 30 Sep 1985 BLT 5; 14–29 Sep 1988 BLT 3, MVL 7. Abundant.
7687	AMERICAN LAPPET MOTH, <i>Phyllodesma americana</i> (Harr.) 21 Apr (2)–8 Jul 1985 BL 2; 5 Apr–13 Jul 1988 BL 1, BLT 7, MVL 4. Abundant.
7698	FOREST TENT CATERPILLAR MOTH, <i>Malacosoma distria</i> Hbn. 16 Jun 1985 BL 4; 24 Jul 1988 MVL 1. Common.
7701	EASTERN TENT CATERPILLAR, <i>Malacosoma americanum</i> (F.) 10 Jun 1985 BL 5; 15 Jun 1988 BLT 9, MVL 1. Abundant.
FAMILY SATURNIIDAE-The Giant Silkworm Moths	
7704	IMPERIAL MOTH, <i>Eacles imperialis</i> (Drury) 8 Jul–4 Aug 1985 BL 2; 4 Aug 1988 BLT 13. Abundant.
7706	ROYAL WALNUT MOTH, <i>Citheronia regalis</i> (F.) 13 Jul–4 Aug 1988 BLT 2, MVL 1. Uncommon.
7709	HONEY LOCUST MOTH, <i>Sphingicampa bicolor</i> (Harr.) 9 May 1985 BLT 1. Rare.
7715	ROSY MAPLE MOTH, <i>Dryocampa rubicunda</i> (F.) 9 May–8 Aug 1985 BL 5; 5 Jun–4 Aug 1988 BL 1, BLT 27, MVL 17. Abundant.
7723	PINK-STRIPED OAKWORM MOTH, <i>Anisota virginensis</i> (Drury) Jul 1985 BL 1. Rare.
7746	IO MOTH, <i>Automeris io</i> (F.) 24 Jun 1985 BL 3; 5 Jun–13 Jul 1988 12, MVL 4. Abundant.
7757	POLYPHEMUS MOTH, <i>Antherea polyphemus</i> (Cram.) 8–15 Jul 1985 BL 2; 13–24 Jul 1988 BLT 4, MVL 4. Common.
7758	LUNA MOTH, <i>Actias luna</i> (L.) 9 May–18 Oct 1985 BL 2, BLT 3; 15 May–4 Aug 1988 BLT 4, MVL 6. Abundant.
7764	PROMETHEA MOTH, <i>Callosamia promethea</i> (Drury) 24 Jul 1988 MVL 1. Rare.
7765	TULIP TREE SILK MOTH, <i>Callosamia angulifera</i> (Wlk.) 13 Jul 1988 BLT 4, MVL 2. Common.
7767	CECROPIA, <i>Hyalophora cecropia</i> (L.) 30 Sep 1985 L 1; 13 Jul 1988 MVL 1. Uncommon.
FAMILY SPHINGIDAE-The Hawk Moths	
7783	ASH SPHINX, <i>Manduca jasminearum</i> (Guer.) 13 Jul 1988 MVL 3. Uncommon.

TABLE 1 (continued)

7786	ELM SPINX, <i>Ceratomia amyntor</i> (Gey.) 13 Jul 1988 MVL 3. Uncommon.
7787	WAVED SPHINX, <i>Ceratomia undulosa</i> (Wlk.) 10 Jun–4 Aug 1985 BL 2; 15 Jun–13 Jul 1988 MVL 2. Uncommon.
7789	CATALPA SPHINX, <i>Ceratomia catalpae</i> (Bdv.) 8 Jul 1985 BL 1. Rare.
7809	LAUREL SPHINX, <i>Sphinx kalmiae</i> J. E. Smith 9 May 1985 BL 1; 13 Jul 1988 MVL 1. Uncommon.
7821	TWIN-SPOT SPHINX, <i>Smerinthus jamaicensis</i> (Drury) 15 May 1988 MVL 1. Rare.
7824	BLINDED SPHINX, <i>Paonias excaecatus</i> (J. E. Smith) 13 Jul 1988 BLT 1. Rare.
7825	SMALL-EYED SPHINX, <i>Paonias myops</i> (J. E. Smith) 9 May–10 Aug 1985 BL 4; 15 Jun–24 Jul 1988 BLT 3, MVL 8. Abundant.
7827	WALNUT SPHINX, <i>Laotloe juglandis</i> (J. E. Smith) 8 Jul 1985 BL 3; 5 Jun–24 Jul 1988 BLT 9, MVL 4. Abundant.
7828	MODEST SPHINX, <i>Pachysphinx modesta</i> (Harr.) 5 Jun 1988 MVL 1. Rare.
7870	ABBOT'S SPHINX MOTH, <i>Sphecodina abbottii</i> (Swainson) 14 May 1985 BL 1. Rare.
7871	LETTERED SPHINX MOTH, <i>Deidamia inscripta</i> (Harr.) 21 Apr 1985 BLT 1; 13–26 Apr 1988 BLT 5. Common.
7873	NESSUS SPHINX MOTH, <i>Amphion floridensis</i> B. P. Clark 14 May 1985 BL 1. Rare.
7885	VIRGINIA CREEPER SPHINX, <i>Darapsa myron</i> (Cram.) 16 Jun 1985 S (5); 13–24 Jul 1988 MVL 4, S 1. Common.
7886	AZALEA SPHINX MOTH, <i>Darapsa pholus</i> (Cram.) 14 May–8 Jul 1985 BLT 5; 13 Jul 1988 BLT 1, MVL 3. Common.
7894	WHITE-LINED SPHINX, <i>Hyles lineata</i> (F.) 10 Sep 1985 BL 1. Rare.
FAMILY NOTODONTIDAE-The Prominent Moths	
7895	SIGMOID PROMINENT, <i>Clostera albosigma</i> Fitch 15 May 1988 MVL 1. Rare.
7896	ANGLE-LINED PROMINENT, <i>Clostera inclusa</i> (Hbn.) 9 May 1985 BL 1; 15 May 1988 BLT 16. Abundant.
7901	<i>Clostera apicalis</i> (Wlk.) 15 May 1988 BLT 17, MVL 26. Abundant.
7902	YELLOW-NECKED CATERPILLAR MOTH, <i>Datana ministra</i> (Drury) 30 May 1985 BL 3. Uncommon.
7903	ANGUS'S DATANA, <i>Datana angusii</i> G. & R. 15 Jun 1988 BLT 1. Rare.
7804	DREXELL'S DATANA, <i>Datana drexellii</i> Hy. Edw. 14 Jul–18 Aug 1985 BL 3. Uncommon.
7907	WALNUT CATERPILLAR, <i>Datana integerrima</i> G. & R. 10 Jun–16 Jul 1985 BL 2. Uncommon.
7908	SPOTTED DATANA, <i>Datana perspicua</i> G. & R. 15 Jul 1985 BL 1. Rare.
7915	WHITE-DOTTED PROMINENT, <i>Nadata gibbosa</i> (J. E. Smith) 9 May–8 Jul 1985 BL 9; 15 May 14 Sep 1988 BLT 10. Abundant.
7917	GEORGIAN PROMINENT, <i>Hyperaeschra georgica</i> (H.-S.) 24 Jun–4 Aug 1985 BL 2. Uncommon.
7919	OVAL-BASED PROMINENT, <i>Peridea basitriens</i> (Wlk.) 9 May–10 Jun 1985 BL 2. Uncommon.
7920	ANGULOSE PROMINENT, <i>Peridea angulosa</i> (J. E. Smith) 23 Aug 1985 BL 3; 14 Sep 1988 BLT 2. Common.
7924	ELEGANT PROMINENT, <i>Odontosia elegans</i> (Strk.) 4–8 Aug 1985 BL 3; 4 Aug 1988 BL 1, BLT 1. Common.
7922	BLACK-RIMMED PROMINENT, <i>Pheosia rimosia</i> Pack. 8–10 Aug 1985 BL 2. Uncommon.
7929	DOUBLE-TOOTHED PROMINENT, <i>Nerice bidentata</i> Wlk. 9 May 1985 BL 6; 15 May 1988 BLT 4, MVL 1. Abundant.
7930	LINDEN PROMINENT, <i>Ellida caniplaga</i> (Wlk.) 21 Apr–8 Aug 1985 BL 7; 13 Apr 15 May 1988 BLT 4, MVL 3. Abundant.
7931	COMMON GLUPHISIA, <i>Gluphisia septentrionis</i> Wlk. 8 Aug 1985 BL 4; 13–24 Jul 1988 MVL 2. Uncommon.
7936	WHITE FURCULA, <i>Furcula borealis</i> (Guer.-Meneville) 9 May 1985 BL 1; 5 Jun 1988 BLT 1. Uncommon.

TABLE 1 (continued)

7937	GRAY FURCULA, <i>Furcula cinerea</i> (Wlk.) 8 Jul 1985 BL 1; 4 Aug 1988 BLT 1. Uncommon.
7951	WHITE-HEADED PROMINENT, <i>Symmerista albifrons</i> (J. E. Smith) 10 Jun–15 Jul 1985 BL 2. Uncommon.
7957	BLACK-SPOTTED PROMINENT, <i>Dasylophia anguina</i> (J. E. Smith) 9 May 1985 BL 1; 5 Jun 1988 MVL 1. Uncommon.
7958	GRAY-PATCHED PROMINENT, <i>Dasylophia thyatiroides</i> (Wlk.) 16 Jun 1985 BL 1. Rare.
7975	MOTTLED PROMINENT, <i>Macrurocampa marthesia</i> (Cram.) 8–15 Jul 1985 BL 2; 4 Aug 1988 BL 1, BLT 4. Common.
7983	OBLIQUE HETEROCAMPA, <i>Heterocampa obliqua</i> Pack. 15 Jul 1985 BL 1; 24 Jul 1988 MVL 1. Uncommon.
7990	WHITE-BLOTCHED HETEROCAMPA, <i>Heterocampa umbrata</i> Wlk. 21 Apr 1985 BL 1. Rare.
7994	SADDLED PROMINENT, <i>Heterocampa guttivitta</i> (Wlk.) 12 Jun 1985 BL 1. Rare.
7995	WAVY-LINED HETEROCAMPA, <i>Heterocampa biundata</i> Wlk. 9 May 1985 BL 1. Rare.
7998	VARIABLE OAK LEAF CATERPILLAR, <i>Lochmaeus manteo</i> Doubleday 9 May 1985 BL 1. Rare.
7999	DOUBLE-LINED PROMINENT, <i>Lochmaeus bilineata</i> (Pack.) 8 Jul 1985 BL 1. Rare.
8005	MORNING GLORY PROMINENT, <i>Schizura ipomeae</i> Doubleday 8 Jul 1985 BL 4; 14 Sep 1988 BLT 1. Common.
8007	UNICORN CATERPILLAR, <i>Schizura unicornis</i> (J. E. Smith) 23 Aug 1985 BL 5; 15 May 1988 BLT 1, MVL 2. Uncommon.
8011	BLACK-BLOTCHED SCHIZURA, <i>Schizura leptinoides</i> (Grt.) 8 Jul 1985 BL 3; 15 Jun 1988 BLT 1. Uncommon.
8017	WHITE-STREAKED PROMINENT, <i>Oligocentra lignicolor</i> (Wlk.) 24 Jun–23 Aug 1985 BL 2; 4 Aug 1988 BLT 1. Uncommon.
FAMILY ARCTIIDAE-The Tiger Moths	
8090	PAINTED LICHEN MOTH, <i>Hypoprepia fucosa</i> Hbn. 4–8 Aug 1985 BL 2; 4 Aug 1988 BLT 2. Uncommon.
8107	CLYMENE MOTH, <i>Haploa clymene</i> (Brown) 15 Jul 1985 BL 2; 24 Jul–4 Aug 1988 BLT 1, MVL 2. Common.
8111	LECONT'S HAPLOA, <i>Haploa lecontei</i> (Guer.) 16 Jun 1985 BL 1. Rare.
8112	CONFUSED HAPLOA, <i>Haploa confusa</i> (Lyman) 13 Jul 1988 BL 1. Rare.
8129	ISABELLA TIGER MOTH, <i>Pyrrharctia isabella</i> (J. E. Smith) 16 Jun–10 Sep 1985 BL 8; 5–15 Jun 1988 BLT 1, MVL 1. Abundant.
8131	SALT MARSH CATERPILLAR, <i>Estigmene acrea</i> (Drury) 8 Jul 1985 BL 2; 13 Jul–4 Aug 1988 BLT 2. Uncommon.
8134	AGREEABLE TIGER MOTH, <i>Spilosoma congrua</i> Wlk. 3 Sep 1985 BLT 1; 15 May 5 Jun 1988 BLT 4, MVL 2. Common.
8137	VIRGINIA TIGER MOTH, <i>Spilosoma virginica</i> (F.) 9 May 1985 BL 10; 15 May–5 Jun 1988 BLT 11, MVL 1. Abundant.
8140	FALL WEBWORM, <i>Hyphantria cunea</i> (Drury) 9 May–8 Jul 1985 BL 2; 15 May 1988 BLT 1, MVL 1. Uncommon.
8146	GIANT LEOPARD MOTH, <i>Ecpantaria scribonia</i> (Stoll.) 10 Jun–8 Jul 1985 BL 6. Common.
8169	HARNESSED TIGER MOTH, <i>Apantesis phalerata</i> (Harr.) 5 Jun 1988 MVL 1. Rare.
8176	ANNA TIGER MOTH, <i>Grammia anna</i> (Grt.) 15 Jun 1988 BLT 3. Uncommon.
8197	VIRGIN TIGER MOTH, <i>Grammia virgo</i> (L.) 13 Jul 1988 BL 1. Rare.
8199	ARGE MOTH, <i>Grammia arge</i> (Drury) 14 Sep 1988 BLT (3), MVL 1. Rare.
8203	BANDED TUSsock MOTH, <i>Halysidota tessellaris</i> (J. E. Smith) 10 Jun 1985 BL 9, BLT 10, 15 Jun 24 Jul 1988 BLT 17, MVL 7, S 1. Abundant.
8211	HICKORY TUSsock MOTH, <i>Lophocampa caryae</i> Harr. 9 May–10 Jun 1985 BL 3; 5–15 Jun 1988 BLT 21, MVL 49. Abundant.

TABLE 1 (continued)

8230	DELICATE CYCNIA, <i>Cycnia tenera</i> Hbn. 10 Jun–10 Aug 1985 BLT 3. Uncommon.
8231	OREGON CYCNIA, <i>Cycnia oregonensis</i> (Stretch) 15 May 1988 BLT 1. Rare.
8267	YELLOW-COLLARED SCAPE MOTH, <i>Cisseps fulvicollis</i> (Hbn.) 10 Jun–18 Oct 1985 BLT 45; 14–29 Sep 1988 BLT 1, MVL 2. Abundant.
FAMILY LYMANTRIDAE-The Tussock Moths.	
8292	TEPHRA TUSsock MOTH, <i>Dasychira tephra</i> Hbn. 16 Jun–15 Jul 1985 BL 1. Rare.
8296	YELLOW-BASED TUSsock MOTH, <i>Dasychira basiflava</i> (Pack.) 24 Jun–8 Aug 1985 BL 2. Rare.
8302	STREAKED TUSsock MOTH, <i>Dasychira obliquata</i> (G. & R.) 8 Aug 1985 BL 1; 4 Aug 1988 BL 1, BLT 5. Common.
8304	<i>Dasychira plagiata</i> (Wlk.) 16 Jun 1985 BL (1).
8314	DEFINITE TUSsock MOTH, <i>Orgyia definita</i> Pack. 29 Sep 1988 BLT 5, MVL 5. Abundant.
8316	WHITE-MARKED TUSsock MOTH, <i>Orgyia leucostigma</i> (J. E. Smith) 30 Sep 1985 BLT 4; 29 Sep 1988 BLT 2, MVL 2. Common.
FAMILY NOCTUIDAE-Owlet moths.	
8322	AMERICAN IDIA, <i>Idia americalis</i> (Gn.) 16 Jun–3 Sep 1985 BL 1, S 1; 24 Jul–29 Sep 1988 BLT 5, MVL 2, S 1. Common.
8323	COMMON IDIA, <i>Idia aemula</i> Hbn. 10 Jul–18 Oct 1985 S 2; 10 Sep–29 Sep 1988 BLT 53, MVL 27. Abundant.
8334	GLOSSY BLACK IDIA, <i>Idia lubricalis</i> (Gey.) 16 Jun–4 Aug 1985 S 2; 24 Jul–4 Aug 1988 S 12. Abundant.
8338	DARK-BANDED OWLET, <i>Phalaenophana pyramusalis</i> (Wlk.) 5 Jun 1988 S 1. Rare.
8345	VARIABLE ZANCLOGNATHA, <i>Zanclognatha laevigata</i> (Grt.) 4 Aug 1985 BL 1. Rare.
8355	MORBID OWLET, <i>Chytolita morbidalis</i> (Gn.) 14 May 1985 BLT 1. Rare.
8364	BLACK-BANDED OWLET, <i>Phalaenostola larentiodes</i> Grt. 15 Jun 1988 MVL 1. Rare.
8393	AMBIGUOUS MOTH, <i>Lascoria ambigualis</i> Wlk. 15 May 1988 MVL 1; 15 May 1988 BLT 2. Uncommon.
8397	DARK-SPOTTED PALTHIS, <i>Paltis angulalis</i> (Hbn.) 10 Jan–8 Aug 1985 BL 3. Uncommon.
8398	FAINT-SPOTTED PALTHIS, <i>Paltis asopialis</i> (Gn.) 10 Sep 1988 BLT 1; 14 Sep 1988 BLT 1. Uncommon.
8441	FLOWING LINE BOMOLOCHA, <i>Bomolocha manalis</i> (Wlk.) 8 Aug 1985 BL 1. Rare.
8442	BALTIMORE BOMOLOCHA, <i>Bomolocha baltimoralis</i> (Gn.) 14 May–8 Aug 1985 BL 4; 15 May 1988 BLT 2. Common.
8443	DIMORPHIC BOMOLOCHA, <i>Bomolocha bijugalis</i> (Wlk.) 8 Aug 1985 BL 2; 15 May 1988 MVL 1, BLT 1. Uncommon.
8444	MOTTLED BOMOLOCHA, <i>Bomolocha palparia</i> (Wlk.) 18 Jul–8 Aug 1985 BL 2. Uncommon.
8445	WHITE-LINED BOMOLOCHA, <i>Bomolocha abalienalis</i> (Wlk.) 9 May–10 Jun 1985 BL 3; 13 Jul 1988 MVL 1. Uncommon.
8446	DECEPTIVE BOMOLOCHA, <i>Bomolocha deceptalis</i> (Wlk.) 9 May–4 Aug 1985 BL 2; 4 Aug 1988 BLT 1. Uncommon.
8447	GRAY-EDGED BOMOOCHA, <i>Bomolocha madefactalis</i> (Gn.) 18 Jul 1985 BL 1; 13 Jul–4 Aug 1988 BLT 3, MVL 5. Common.
8465	GREEN CLOVERWORM, <i>Plathypena scabra</i> (F.) 10 Jun–3 Sep 1985 BL 13; 15 Nov 1987 BT 4; 4 Apr–29 Sep 1988 BL 2, BLT 8, MVL 5. Abundant.
8479	SIX-SPOTTED GRAY, <i>Spargaloma sexpunctata</i> Grt. 24 Jun 1985 BL 1. Rare.
8490	DECORATED OWLET, <i>Pangrapta decoloralis</i> Hbn. 14 May–8 Aug 1985 BL 1, BLT 1. Uncommon.
8499	COMMON FUNGUS MOTH, <i>Metalectra discalis</i> (Grt.) 10 Jun–10 Sep 1985 BLT 4. Uncommon.
8514	DEADWOOD BORER, <i>Scolecampa liburna</i> (Gey.) 15 Jul–8 Aug 1985 BL 2; 13–24 Jul 1988 MVL 3. Uncommon.
8555	THE HERALD, <i>Scoliopteryx libatrix</i> (L.) 15 Nov 1987 S 1; 13 Apr 1988 S 1. Uncommon.

TABLE 1 (continued)

8587	RED-LINED PANOPODA, <i>Panopoda rufimargo</i> (Hbn.) 8 Jul–3 Sep 1985 BL 2; 15 Jun 4 Aug 1988 BLT 11, MVL 4. Abundant.
8588	BROWN PANOPODA, <i>Panopoda carneicosta</i> Gn. 15 Jul–4 Aug 1985 BL 2; 13 Jul 1988 BLT 3, MVL 2. Common.
8591	COMMON OAK MOTH, <i>Phoberia atomaris</i> Hbn. 31 Mar–15 May 1988 BLT 92, MVL 29. Abundant.
8641	FIGURE-SEVEN MOTH, <i>Synedoida grandirena</i> (Haw.) 4 Aug 1988 BLT 1.
8689	LUNATE ZALE, <i>Zale lunata</i> (Dru.) 21 Apr 1985 BL 1; 13 Apr–14 Sep BLT 20, MVL 6, S 2. Abundant.
8692	MAPLE ZALE, <i>Zale galbanata</i> (Morr.) 10 Jul–10 Aug 1985 BL 3. Uncommon.
8695	BLACK ZALE, <i>Zale undularis</i> (Drury) 21 Apr 1985 BL 1. Rare.
8697	COLORFUL ZALE, <i>Zale minerea</i> (Gn.) 21 Apr 1985 BL 1. Rare.
8699	OBLIQUE ZALE, <i>Zale obliqua</i> (Gn.) 21 Apr 1985 BL 1. Rare.
8703	DUPLICATE ZALE, <i>Zale duplicata</i> (Bethune) 14 May–10 Jun 1985 BL 2; 15 May–5 Jun 1988 BLT 65, S 1. Abundant.
8704	BROWN-SPOTTED ZALE, <i>Zale helata</i> (Sm.) 10–24 Jun 1985 BL 2. Uncommon.
8716	ONE-LINED ZALE, <i>Zale unilineata</i> (Grt.) 9 May 1985 BL 1; 15 May 1988 BLT 2.
8719	LOCUST UNDERWING, <i>Euparthenos nubilus</i> (Hbn.) 14 May–3 Sep 1985 BL 1, BLT 2. Uncommon.
8721	FALSE UNDERWING, <i>Allotria elonympha</i> (Hbn.) 14 May 1985 BL 4; 15 May–4 Aug 1988 BLT 5, MVL 4. Abundant.
8727	MAPLE LOOPER, <i>Parallelia bistriaris</i> Hbn. 30 May–24 Jun 1985 BL 3; 15 May 4 Aug 1988 BLT 2, MVL 1, S 1. Common.
8738	CLOVER LOOPER, <i>Caenurgina crassiuscula</i> (Haw.) 9 May–23 Aug 1985 BL 10; 10 Sep–14 Sep 1988 BLT 6, MVL 5, S 1. Abundant.
8739	FORAGE LOOPER, <i>Caenurgina erecta</i> (Cram.) 21 Apr–23 Aug 1985 BL 2; 10–29 Sep 1988 BLT 7. Common.
8770	THE BETHROTHED, <i>Catocala innubens</i> Gn. 4 Sep 1985 BLT 1. Rare.
8778	HABILIS UNDERWING, <i>Catocala habilis</i> Grt. 10 Sep 1985 BLT 2. Uncommon.
8779	SERENE UNDERWING, <i>Catocala serena</i> Edw. 23 Aug–3 Sep 1985 BL 1, BLT 2. Uncommon.
8782	MOURNING UNDERWING, <i>Catocala flebilis</i> Grt. 10 Sep 1988 Grt. BLT 3. Uncommon.
8783	ANGUS'S UNDERWING, <i>Catocala angusi</i> Grt. 10 Sep 1985 BLT 1. Rare.
8784	OBSCURE UNDERWING, <i>Catocala obscura</i> Stkr. 10 Sep 1985 BLT 2; 10 Sep 1988 BLT 1. Uncommon.
8788	YELLOW-GRAY UNDERWING, <i>Catocala relecta</i> Grt. 23 Aug–3 Sep 1985 BL 1, BLT 3; 4 Aug–14 Sep 1988 BLT 7, MVL 4, S 2. Abundant.
8790	DEJECTED UNDERWING, <i>Catocala dejecta</i> Stkr. 4–10 Sep 1985 BLT 2; 29 Sep 1988 MVL 1. Uncommon.
8792	WIDOW UNDERWING, <i>Catocala vidua</i> (J. E. Smith) 3 Sep 1985 BLT 1; 14 Sep–29 Sep 1988 BLT 1, S 1. Uncommon.
8795	OLDWIFE UNDERWING, <i>Catocala palaeogama</i> Gn. 10 Sep 1985 BLT 3; 4 Aug–14 Sep 1988 BLT 8, MVL 7, S 1. Abundant.
8796	CLOUDED UNDERWING, <i>Catocala nebulosa</i> Edw. 23 Aug 1985 BL 1. Rare.
8797	YOUTHFUL UNDERWING, <i>Catocala subnata</i> Grt. 3 Sep 1985 BL 3; 4 Aug–14 Sep 1988 BLT 3, S 1. Common.
8798	THE BRIDE, <i>Catocala neogama</i> (J. E. Smith) 3 Sep 1985 BL 1, BLT 2; 14 Sep 1988 BLT 4, MVL 6. Abundant.
8801	ILIA UNDERWING, <i>Catocala ilia</i> (Cram.) 8 Jul–10 Sep 1985 BL 1, BLT 2, S 3; 13 Jul 14 Sep 1988 MVL 1, S 5. Abundant.
8802	YELLOW-BANDED UNDERWING, <i>Catocala cerogama</i> Gn. 24 Jul 1988 S 1; 10 Sep–29 1988 MVL 1, S 2.

TABLE 1 (continued)

	Uncommon
8803	WHITE UNDERWING, <i>Catocala relecta</i> Wlk. 14 Sep 1988 BLT 1, S 2; 29 Sep 1988 S 1. Uncommon.
8805	ONCE-MARRIED UNDERWING, <i>Catocala unijuga</i> Wlk. 4 Aug 1988 S 1. Rare.
8832	DARLING UNDERWING, <i>Catocala cara</i> Gn. 14 Sep 1988 S 1. Rare.
8857	ULTRONIA UNDERWING, <i>Catocala ultronia</i> (Hbn.) 15 Jul–3 Sep 1985 BLT 1, S 3; 24 Jul–14 Sep 1988 BL 1, BLT 3, MVL 1. Common.
8863	WONDERFUL UNDERWING, <i>Catocala mira</i> Grt. 15 Jul 1988 S 1. Rare.
8864	WOODY UNDERWING, <i>Catocala grynea</i> (Cram.) 15 Jul–23 Aug 1985 BL 2. Uncommon.
8865	PRAECLARA UNDERWING, <i>Catocala praeclara</i> G. & R. 15 Jul 1988 S 1. Rare.
8876	LITTLE NYMPH, <i>Catocala micronympha</i> Gn. 8–10 Aug 1985 BL 2. Uncommon.
8878	GIRLFRIEND UNDERWING, <i>Catocala amica</i> (Hbn.) 4 Aug–3 Sep 1985 BL 2; 13 Jul–4 Aug 1988 BLT 2, MVL 1. Uncommon.
8878.1	AN UNDERWING MOTH, <i>Catocala lineella</i> Grt. 4 Aug–1985 BL 1; 4 Aug–10 Sep 1988 BLT 2, S 1. Uncommon.
8890	SOYBEAN LOOPER, <i>Pseudoplusia includens</i> (Wlk.) 29 Sep 1988 MVL 1. Rare.
8897	BALLUCA MOTH, <i>Diachrysia balluca</i> Gey. 3 Sep 1985 BL 1. Rare.
8898	UNSPOTTED LOOPER MOTH, <i>Allagrapha aerea</i> (Hbn.) 10 Jun–3 Sep 1985 BL 2. Uncommon.
8908	COMMON LOOPER, <i>Autographa precationis</i> (Gn.) 9 May–9 Sep 1985 BL 5; 15 May 29 Sep 1988 BLT 3, MVL 5. Abundant.
8924	CELERY LOOPER, <i>Anagrapha falcifera</i> (Kby.) 10 Jun–10 Sep 1985 BL 3; 15 May–14 Sep 1988 BLT 3, MVL 5. Abundant.
8955	DARK MARATHYSSA, <i>Marathyssa inficita</i> (Wlk.) 9 May 1985 BL 1; 13 Jul 1988 MVL 1. Uncommon.
8957	EYED PAECTES, <i>Paectes oculatrix</i> (Gn.) 10 Jun 1985 S 1. Rare.
8970	EYED BAILEYA, <i>Baileya ophthalmica</i> (Gn.) 9–14 May 1985 BL 2; 15 May 15 Jun 1988 BLT 6, MVL 2. Common.
8971	SLEEPING BAILEYA, <i>Baileya dormitans</i> (Gn.) 4 Aug 1985 BL 1; 15 May 1988 BLT 2. Uncommon.
8972	PALE BAILEYA, <i>Baileya levitans</i> (Sm.) 28 Jul 1985 BL 1; 26 Apr–15 May 1988 BLT 2, MVL 9. Abundant.
9047	LARGE MOSSY LITHACODIA, <i>Lithacodia musculosa</i> (Gn.) 15 Jul 1985 BL 2. Uncommon.
9049	BLACK-DOTTED LITHACODIA, <i>Lithacodia synchitis</i> (G. & R.) 15 Jun 1988 BLT 1. Rare.
9053	PINK-BARRED LITHACODIA, <i>Lithacodia carneola</i> (Gn.) 16 Jun–4 Aug 1985 BL 1, S 2; 5 Jun–29 Sep 1988 BLT 3, MVL 1. Uncommon.
9057	BLACK WEDGE SPOT, <i>Homophoberia apicosa</i> (Haw.) 4 Aug 1988 BLT 1. Rare.
9062	TUFTED BIRD-DROPPING MOTH, <i>Cerma cerintha</i> (Tr.) 10 Jun–10 Aug 1985 BL 3; 5–15 Jun 1988 MVL 2. Common.
9065	GREEN LEUCONYCTA, <i>Leuconycta diptheroides</i> (Gn.) 5 Jun–13 Jul 1988 MVL 2. Uncommon.
9090	OLIVE-SHADED BIRD-DROPPING MOTH, <i>Tarachidia candefacta</i> (Hbn.) 15 May 1988 BLT 1. Rare.
9095	SMALL BIRD-DROPPING MOTH, <i>Tarachidia erastriodes</i> (Gn.) 5 Jun 1988 MVL 1. Rare.
9184	YELLOWHORN, <i>Colocasia flavicornis</i> (Sm.) 5 Apr–15 May 1988 BL 1, BLT 6, MVL 8. Abundant.
9185	CLOSE-BANDED YELLOWHORN, <i>Colocasia propinquilinea</i> (Grt.) 21 Apr–14 May 1985 BL 3; 13 Apr–15 Jun 1988 BLT 7, MVL 15. Abundant.
9189	THE LAUGHTER, <i>Chavadra deridens</i> (Gn.) 23 Aug 1985 BL 1; 15 Jun 1988 MVL 2. Uncommon.
9193	THE BROTHER, <i>Raphia frater</i> Grt. 8 Aug 1985 BL 1. Rare.
9200	AMERICAN DAGGER MOTH, <i>Acronicta americana</i> (Harr.) 10 Jun–8 Aug 1985 BL 3; 13 Jul 4 Aug 1988 BLT 5. Common.

TABLE 1 (continued)

9221	FUNERARY DAGGER MOTH, <i>Acronicta funeralis</i> G. & R. 16 Jun 1985 BL 2. Uncommon.
9225	DELIGHTFUL DAGGER MOTH, <i>Acronicta vinnula</i> (Grt.) 8 Aug 1985 BL 3; 15 May 1988 MVL 1. Uncommon.
9227	PLEASANT DAGGER MOTH, <i>Acronicta laetifica</i> Sm. 24 Jun 1985 BL 1. Rare.
9229	SPEARED DAGGER MOTH, <i>Acronicta hasta</i> Gn. 9 May 1985 BL 10; 15 May 1988 BLT 4, MVL 1. Abundant.
9236	OCHRE DAGGER MOTH, <i>Acronicta morula</i> G. & R. 14 May–8 Jul 1985 BL 3; 5 Jun 1988 BLT 1. Uncommon.
9238	LOBELIA DAGGER MOTH, <i>Acronicta lobeliae</i> Gn. 14 May 1985 BL 1. Rare.
9243	OVATE DAGGER MOTH, <i>Acronicta ovata</i> Grt. 10 Aug 1985 BL 4; 13 Jul 1988 MVL 1. Common.
9245	HETITANT DAGGER MOTH, <i>Acronicta baesitata</i> (Grt.) 14 May–10 Jun 1985 BL 3. Uncommon.
9254	AFFLICTED DAGGER MOTH, <i>Acronicta afflicta</i> Grt. 8 Jul 1985 BL 2. Uncommon.
9281	GREEN MARVEL, <i>Agriopodes fallax</i> (H.-S.) 15 May 1988 MVL 1, BLT 1. Uncommon.
9285	THE HEBREW, <i>Polygrammate hebraeicum</i> Hbn. 10–15 Jul 1985 BL 5; 15 Jun 24 Jul 1988 BLT 4, MVL 1. Common.
9301	BEAUTIFUL WOOD NYMPH, <i>Eudryas grata</i> (F.) 8 Jul–4 Aug 1985 BL 5; 15 Jun–4 Aug 1988 BLT 13. Abundant.
9314	EIGHT-SPOTTED FORESTER, <i>Alypia octomaculata</i> (F.) 14 May 1985 BL 1. Rare.
9391	DOCK RUSTIC, <i>Luperina passer</i> (Gn.) 30 Sep 1985 BLT 1. Rare.
9402	A NOCTUID MOTH, <i>Oligia chlorostigma</i> (Harv.) 18 Jul 1985 BL 1. Rare.
9454	VEILED EAR MOTH, <i>Amphipoea velata</i> (Wlk.) 24 Jun 1985 BL 1, S 2. Uncommon.
9457	AMERICAN EAR MOTH, <i>Amphipoea americana</i> (Speyer) 8–10 Aug 1985 BLT 3. Uncommon.
9471	NORTHERN BURDOCK BORER, <i>Papaipema arctivorens</i> Hamp. 3 Sep 1985 BLT 9. Common.
9483	SENSITIVE FERN BORER, <i>Papaipema inquaesita</i> (G. & R.) 10 Sep 1985 BLT 7; 14–29 Sep 1988 BLT 3, MVL 1. Abundant.
9485	ASH TIP BORER, <i>Papaipema baptisiae</i> (Bird) 10 Sep 1985 BLT 6. Common.
9495	A BORER, <i>Papaipema furcata</i> (Sm.) 10 Sep 1985 BLT 1; 14 Sep 1988 BLT 1. Uncommon.
9496	STALK BORER, <i>Papaipema nebris</i> (Gn.) 30 Sep 1985 BLT 3; 14 Sep 1988 BLT 1. Uncommon.
9497	SUNFLOWER BORER MOTH, <i>Papaipema necopina</i> (Grt.) 8 Oct 1985 BL 4. Uncommon.
9503	RIGID SUNFLOWER MOTH, <i>Papaipema rigida</i> (Grt.) 10 Sep 1985 BL 1; 14 Sep 1988 BLT 1. Uncommon.
9505	IRONWEED BORER, <i>Papaipema cernuata</i> (Grt.) 10 Sep 1985 BLT 17; 29 Sep 1988 BLT 1. Abundant.
9513	HOP VINE BORER, <i>Hydroecia immanis</i> Gn. 3 Sep 1985 BL 1. Rare.
9520	ELDER SHOOT BORER, <i>Achatodes zaeae</i> (Harr.) 8 Jul 1985 BL 1; 4 Aug 1988 BLT 1. Uncommon.
9525	CATTAIL BORER, <i>Bellura obliqua</i> (Wlk.) 15 May 1988 MVL 1. Rare.
9545	AMERICAN ANGLE SHADES, <i>Euplexia benesimilis</i> McD. 24 Jun–10 Aug 1985 BL 3; 15 May–15 Jun 1988 BLT 6. Common.
9547	BROWN ANGLE SHADES, <i>Phlogophora periculosa</i> Gn. 10 Sep 1988 BLT 1; 14 Sep 1988 BLT 2. Uncommon.
9556	CLOAKED MARVEL, <i>Chytonix palliatricula</i> 10 Jun–4 Aug 1985 BL 1. Rare.
9560	AMERICAN BIRD-WING, <i>Dipterygia rozmani</i> Berio 15 Jul 1985 BL 1. Rare.
9578	COMMON HYPPA, <i>Hyppa xylinoides</i> (Gn.) 15 May–13 Jul 1988 BLT 1, MVL 1. Uncommon.
9582	GRAY HALF-SPOT, <i>Nedra ramosula</i> (Gn.) 10 Jun 1985 BL 2; 14 Sep 1988 BLT 1. Uncommon.
9619	SPOTTED PHOSPHILA, <i>Phosphila miseloides</i> (Gn.) 4 Aug 1988 BLT 1. Rare.

TABLE 1 (continued)

9638	COPPER UNDERWING, <i>Amphipyra pyramidoides</i> Gn. 30 Sep–9 Oct 1985 BL 3, S 7; 24 Jul–29 Sep 1988 BLT 14, MVL 5, S 9. Abundant.
9650	THE SLOWPOKE, <i>Anorthodes tarda</i> (Gn.) 9 May–23 Aug 1985 BL 5. Common.
9662	MANY-DOTTED APPLE WORM, <i>Balsa malana</i> (Fitch) 8 Jul–4 Aug 1985 BL 2. Uncommon.
9664	WHITE-BLOTCHED Balsa, <i>Balsa labecula</i> (Grt.) 18 Jul 1985 BL 1. Rare.
9666	FALL ARMYWORM, <i>Spodoptera frugiperda</i> (J. E. Smith) 10 Sep–18 Oct 1985 BLT 5; 14 Sep 1988 MVL 3. Common.
9669	YELLOW-STRIPED ARMYWORM, <i>Spodoptera ornithogalli</i> (Gn.) 18 Oct 1985 BLT 3; 14–29 Sep 1988 BLT 1, S 1. Common.
9678	VARIATED MIDGET, <i>Elaphria versicolor</i> (Grt.) 30 May 1985 BLT 1. Rare.
9681	FESTIVE MIDGET, <i>Elaphria festivoidea</i> (Gn.) 30 May 1985 BL 3. Uncommon.
9688	THE WEDGLING, <i>Galgula partita</i> Gn. 10 Jun–23 Aug 1985 BL 13; 29 Sep 1988 BLT 1. Abundant.
9696	DUSKY GROUNDLING, <i>Platysenta vecors</i> (Gn.) 10 Sep 1985 BL 9. Common.
9720	COMMON PINKBAND, <i>Ogdoconta cinereola</i> (Gn.) 29 Sep 1988 MVL 2. Uncommon.
9815	AMERICAN DUNBAR, <i>Cosmia calami</i> (Harv.) 13 Jul 1988 MVL 1. Rare.
9886	A PINION, <i>Lithophane patesfacta</i> (Wlk.) 26 Mar 1985 S 1; 23 Mar–15 May 1988 BLT 4, S 2. Common.
9887	BETHUNE'S PINION, <i>Lithophane bethunei</i> (G. & R.) 23 Mar 1988 S 3. Uncommon.
9888	NAMELESS PINION, <i>Lithophane innominata</i> (Sm.) 23 Mar 1988 S 5; 31 Mar–26 Apr 1988 BLT 3, MVL 6, S 7. Abundant.
9889	WANTON PINION, <i>Lithophane petulca</i> Grt. 26 Mar–21 Apr 1985 S 2. Uncommon.
9893a	HEMIMA PINION, <i>Lithophane hemima</i> f. <i>lignicosta</i> Grt. 26 Mar 1985 BL 1, S 2; 23 Mar–26 Apr 1988 BLT 5. Common.
9895	SIGNATE PINION, <i>Lithophane signosa</i> (Wlk.) 21 Apr 1985 S 1; 23 Mar 1988 BL 1. Uncommon.
9910	ASHEN PINION, <i>Lithophane antennata</i> (Wlk.) 26 Mar 1985 S 2; 23 Mar–5 Apr 1988 BL 1, BLT 3, S 3. Common.
9914	ASH-GRAY PINION, <i>Lithophane laticinerea</i> Grt. 26 Mar 1985 S 1. Rare.
9915	GROTE'S PINION, <i>Lithophane grotei</i> Riley 26 Mar 1985 S 1. Rare.
9916	DOWDY PINION, <i>Lithophane unimoda</i> (Lint.) 26 Mar–21 Apr 1985 BL 1, S 1; 23 Mar–5 Apr 1988 BL 6, BLT 3, S 6. Abundant.
9929	MUSTARD SALLOW, <i>Pyreferra hesperidago</i> (Gn.) 26 Mar–21 Apr 1985 BL 1, BT 1, S 1; 23 Mar–15 May 1988 BL 11, BLT 16, MVL 11, S 2. Abundant.
9930	A SALLOW, <i>Pyreferra citrombra</i> Franc. 23 Mar 1988 BL 1, BLT 2, S 2; 31 Mar 13 Apr 1988 BL 5, BLT 13, MVL 5. Abundant.
9932	PETTIT'S SALLOW, <i>Pyreferra pettiti</i> (Grt.) 26 Mar 1985 BL 1; 23 Mar–13 Apr 1988 BL 5, BLT 18, MVL 6, S 4. Abundant.
9933	STRAIGHT-TOOTHED SALLOW, <i>Eupsilia vinulenta</i> (Grt.) 26 Mar 1985 BLT 1; 31 Mar–13 Apr 1988 BL 1, MVL 1, S 3. Common.
9933.1	SIDUS SALLOW, <i>Eupsilia sidus</i> (Gn.) 26 Mar 1985 S 1; 23 Mar–13 Apr 1988 BL 2, MVL 1, S 2. Common.
9935	THREE-SPOTTED SALLOW, <i>Eupsilia tristigmata</i> (Grt.) 26 Mar 1985 S 1; 5–13 Apr 1988 BL 1, MVL 2, S 1. Common.
9936	MORRISON'S SALLOW, <i>Eupsilia morrisoni</i> (Grt.) 26 Mar 1985 BL 1, S 1; 31 Mar–5 Apr 1988 BL 7, BLT 2, MVL 1. Abundant.
9943	UNSATATED SALLOW, <i>Metaxaglaea inulta</i> (Grt.) 18 Oct 1985 BLT 5. Common.
9946	SLOPING SALLOW, <i>Epiglaea decliva</i> (Grt.) 15 Nov 1987 S 1. Rare.
9952	SCALLOPED SALLOW, <i>Eucirroedia pampina</i> (Gn.) 18 Oct 1985 BLT 7; 29 Sep 1988 BLT 1. Common.

TABLE 1 (continued)

9957	SHIELD-BACKED CUTWORM, <i>Sunira bicolorago</i> (Gn.) 18 Oct 1985 BLT 7; 15 Nov 1987 BLT 2, S 3. Abundant.
9961	DOTTED SALLOW, <i>Anatbix ralla</i> (G. & R.) 3 Sep 1985 BLT 8; 10–29 Sep 1988 BLT 45, MVL 42. Abundant.
10005	JOCOSE SALLOW, <i>Feralia jocasta</i> (Gn.) 5 Apr 1988 MVL 1. Rare.
10012	CHOSEN SALLOW, <i>Eutolyte electilis</i> (Morr.) 5 Apr 1988 BL 1. Rare.
10012a	CHOSEN SALLOW, <i>Eutolyte electilis</i> f. <i>depilis</i> (Grt.) 13–26 Apr 1988 MVL 6. Common.
10014	ROLAND'S SALLOW, <i>Eutolyte rolandi</i> Grt. 5 Apr 1988 BL 1, MVL 1. Uncommon.
10016	FAWN SALLOW, <i>Copipanolis styracis</i> (Gn.) 26 Mar 1985 BL (1); 23 Mar–5 Apr 1988 BL 3. Uncommon.
10019	FIGURE-EIGHT SALLOW, <i>Psabida resumens</i> Wlk. 21 Apr 1985 BL 1; 13 Apr 1988 MVL 2. Uncommon.
10021	GROTE'S SALLOW, <i>Copivaleria grotei</i> (Morr.) 21 Apr 1985 BL (1); 23 Mar–15 May 1988 BL 9, BLT 12, MVL 39, S 1. Abundant.
10200	THE ASTEROID, <i>Cucullia asteroides</i> Gn. 3 Sep 1985 BL 1. Rare.
10288	DISPARAGED ARCHES, <i>Polia detracta</i> (Wlk.) 2 Jun 1985 BL 1. Rare.
10291	FLUID ARCHES, <i>Polia latex</i> (Gn.) 14 May–4 Aug 1985 BL 5; 15 Jun 1988 BLT 2, MVL 1. Common.
10293	ZEBRA CATERPILLAR, <i>Melanchnra picta</i> (Harr.) 8 Aug 1985 L 1. Rare.
10299	SPECKLED CUTWORM, <i>Lacanobia subjuncta</i> (G. & R.) 15 Jun 1988 BLT 1, MVL 1. Uncommon.
10300	GRAND ARCHES, <i>Lacanobia grandis</i> (Gn.) 8 Jul 1985 BL 1. Rare.
10368	THE THINKER, <i>Lacinipolia meditata</i> (Grt.) 23 Aug 1985 BL 1, BLT 3. Uncommon.
10370	LUSTROUS ARCHES, <i>Lacinipolia lustralis</i> (Grt.) 8–23 Aug 1985 BL 3. Uncommon.
10397	BRISTLY CUTWORM, <i>Lacinipolia renigera</i> (Steph.) 24 Jun–10 Sep 1985 BL 6, BLT 12; 5 Jun–29 Sep 1988 BLT 22, MVL 15. Abundant.
10405	BRINDLED ARCHES, <i>Lacinipolia lorea</i> (Gn.) 16–24 Jun 1985 S 3. Uncommon.
10431	WHEAT-HEAD ARMYWORM, <i>Faronta diffusa</i> (Wlk.) 23 Aug–3 Sep 1985 BL 2. Uncommon.
10436	BOG GRASS MOTH, <i>Aletia oxygala</i> (Grt.) 14 Sep 1988 BLT 1. Rare.
10438	ARMYWORM, <i>Pseudaletia unipuncta</i> (Haw.) 30 May 1985 BL 6; 15–16 Nov 1987 BT 1, S 1; 13 Apr–29 Sep 1988 BLT 35, MVL 30, S 8. Abundant. Three generations.
10446	MANY-LINED WAINSCOT, <i>Leucania multilinea</i> Wlk. 10 Jun–10 Sep 1985 BL (5); 15 May–14 Sep 1988 BLT 1, MVL 3. Common.
10459	UNARMED WAINSCOT, <i>Leucania inermis</i> (Fbs.) 14 May 1985 BL 1. Rare.
10461	URSULA WAINSCOT, <i>Leucania ursula</i> (Fbs.) 14 May 1985 BL 1. Rare.
10462	FALSE WAINSCOT, <i>Leucania pseudargyria</i> Gn. 8 Jul 1985 BL 1. Rare.
10487	RUBY QUAKER, <i>Orthosia rubescens</i> (Wlk.) 21 Apr 1985 BL 1; 23 Mar–26 Apr 1988 BL 1, BLT 31, MVL 1, S 1. Abundant.
10495	SPECKLED GREEN FRUITWORM, <i>Orthosia hibisci</i> (Gn.) 26 Mar–21 Apr 1985 BL 1, S 1; 23 Mar–15 May 1988 BLT 199, MVL 198, S 10. Abundant.
10501	NORMAN'S QUAKER, <i>Crocigrapha normani</i> (Grt.) 21 Apr 1985 BL 7; 26 Apr–15 May 1988 BLT 6. Common.
10502	INTRACTABLE QUAKER, <i>Himella intractata</i> (Morr.) 21 Apr 1985 BL 1; 15 May 1988 BLT 1. Uncommon.
10518	DISTINCT QUAKER, <i>Achatia distincta</i> Hbn. 15 May 1988 MVL 1, BLT 2. Uncommon.
10520	BICOLORED WOODGRAIN, <i>Morrisonia evicta</i> (Grt.) 26 Apr 1988 MVL 1. Rare.
10521	CONFUSED WOODGRAIN, <i>Morrisonia confusa</i> (Hbn.) 9 May 1985 BL 1; 15 May 1988 BLT 11, MVL 6. Abundant.
10524	BRONZED CUTWORM, <i>Nephelodes minians</i> Gn. 3–10 Sep 1985 BLT (7); 10–29 Sep 1988 BLT 14 MVL 1.

TABLE 1 (continued)

	Abundant.
10578	SMALL BROWN QUAKER, <i>Pseudorthodes vecors</i> (Gn.) 14 May–8 Jul 1985 BL 1, BLT 3. Uncommon.
10585	RUSTIC QUAKER, <i>Orthodes crenulata</i> (Butler) 15 Jun–4 Aug 1988 BLT 3. Uncommon.
10587	CYNICAL QUAKER, <i>Orthodes cynica</i> Gn. 10–24 Jun 1985 BL 2; 5 Jun–24 Jul 1988 BLT 9, MVL 1. Common.
10648	CLAY-BACKED CUTWORM, <i>Agrotis gladiaria</i> Morr. 30 Sep 1985 BL 1, BLT 2, S 1; 29 Sep 1988 BLT 18. Abundant.
10651	DUSKY CUTWORM, <i>Agrotis venerabilis</i> Wlk. 30 Sep 1985 BL 1, BLT 1; 29 Sep 1988 BLT 26. Abundant.
10663	BLACK CUTWORM, <i>Agrotis ipsilon</i> (Hufn.) 24 Jun–10 Sep 1985 BL 3; 15–16 Nov 1987 BT, 1, S 7; 13 Apr–29 Sep 1988 BLT 60, MVL 10, S 2. Abundant. Three generations.
10670	DINGY CUTWORM, <i>Feltia jaculifera</i> (Gn.) 3 Sep 1985 BLT 1; 29 Sep 1988 MVL 1. Uncommon.
10670.1	<i>Feltia</i> spp. 14–19 Sep 1988 BLT 5, MVL 9. Abundant.
10675	TRICOSE DART, <i>Feltia tricola</i> (Lint.) 3 Sep 1985 BLT 1. Rare.
10676	MASTER'S DART, <i>Feltia herilis</i> (Grt.) 10–23 Sep 1985 BL 1, BLT 1. Uncommon.
10793	SCHOLARLY DART, <i>Euxoa scholastica</i> McD. 8 Jul 1985 BL 1. Rare.
10803	FLEECE-WINGED DART, <i>Euxoa velleripennis</i> (Grt.) 3 Sep 1985 BLT 1; 29 Sep 1988 BLT 1. Uncommon.
10851	FILLET DART, <i>Euxoa redimicula</i> (Morr.) 10 Aug 1985 BL 1. Rare.
10891	FLAME-SHOULDERED DART, <i>Ochropleura plecta</i> (L.) 15 May 1988 MVL 15. Abundant.
10903	SNOWY DART, <i>Euagrotis illapsa</i> (Wlk.) 23 Aug 1985 BL 2; 10 Sep 1988 BLT 1. Uncommon.
10915	VARIEGATED CUTWORM, <i>Peridroma saucia</i> (Hbn.) 10 Jun–10 Sep 1985 BL 17; 14–29 Sep 1988 BLT 3, MVL 4. Abundant.
10926	W-MARKED CUTWORM, <i>Spaelotis clandestina</i> (Harr.) 5 Jun 1988 MVL 1; 29 Sep 1988 BLT 1. Uncommon.
10942	LESSER BLACK LETTER DART, <i>Xestia adela</i> Franc. 10 Sep 1985 BL 3; 15 Jun–14 Sep 1988 BLT 4, MVL 1. Common.
10942.1	GREATER BLACK LETTER DART, <i>Xestia dolosa</i> Franc. 9 May–10 Sep 1985 BL (7), BLT 8; 5 Jun–29 Sep 1988 BLT 7, MVL 12, S 2. Abundant.
10943	NORMAN'S DART, <i>Xestia normaniana</i> (Grt.) 4–10 Sep 1985 BL 4; 10–29 Sep 1988 BLT 12, MVL 2. Abundant.
10944	SMITH'S DART, <i>Xestia smithii</i> (Snell.) 30 Sep 1985 BLT 9; 10–14 Sep 1988 BLT 2, MVL 1. Abundant.
10950	PINK-SPOTTED DART, <i>Xestia bicarnea</i> (Gn.) 3 Sep 1985 BLT 2; 14 Sep 1988 MVL 1. Uncommon.
10955	SPOTTED-SIDED CUTWORM, <i>Xestia badinodis</i> (Grt.) 10 Sep 1985 BLT 2; 10–29 Sep 1988 BLT 8, MVL 2. Abundant.
10968	NORTHERN VARIABLE DART, <i>Anomygma badicollis</i> (Grt.) 4–10 Aug 1985 BL 5; 4 Aug–14 Sep 1988 BL 13, BLT 16. Abundant.
10994	REDDISH SPECKLED DART, <i>Cerastis tenebrifera</i> (Wlk.) 21 Apr 1985 BL 1; 23 Mar–15 May 1988 BL 14, BLT 47, MVL 27, S 1. Abundant.
11000	GREEN ARCHES, <i>Anaplectoides prasina</i> (D. & S.) 10 Aug 1985 BL 1. Rare.
11006	BROWN-COLLARED DART, <i>Protolampra brunicollis</i> (Grt.) 4 Sep–18 Oct 1985 BLT 5; 10 Sep 1988 BLT 1. Common.
11007	SIGMOID DART, <i>Euretagrotis sigmoides</i> (Gn.) 24 Jun 1985 BL 1. Rare.
11029	MOTTLED GRAY CUTWORM, <i>Abagrotis alternata</i> (Grt.) 3 Sep–18 Oct 1985 BLT 7; 24 Jul–29 Sep 1988 BLT 13. Abundant.
11068	CORN EARWORM, <i>Heliothis zea</i> (Boddie) 1 Sep–10 Sep 1985 BL 7, BLT 8; 14–29 Sep 1988 BLT 3, MVL 2. Common.
11128	ARCIGERA FLOWER MOTH, <i>Schinia arcigera</i> (Gn.) 23 Aug 1985 BL 1. Rare.
11135	RAGWEED FLOWER MOTH, <i>Schinia rivulosa</i> (Gn.) 3 Sep 1985 BLT 1. Rare.

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